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Leslie A. Tywanis  
By:

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re: Application of : Michael J. Sullivan et al.  
For : **GOLF BALL WITH SOFT CORE**  
Serial No. : Unassigned (Continuation of 09/724,156)  
Filed : Herewith  
Group Art Unit : 3711  
Examiner : Unknown  
Attorney Docket No. : P-5474-D1-C1-C1 (SLD 2 0235-1-1)  
  
Cleveland, Ohio 44114-2518  
Date: February 13, 2002

Assistant Commissioner For Patents  
Washington, D.C. 20231

Dear Sir:

**PRELIMINARY AMENDMENT**

Please amend the above captioned application as follows:

**IN THE SPECIFICATION**

On **page 1, line 1**, after the title and before "Field of the Invention" insert:

--Cross References to Related Applications

The present application is a continuation application of U.S. Serial No. 09/724,156, which was filed on November 28, 2000, which is a continuation of U.S. Serial No. 09/299,416, which was filed on April 26, 1999, and issued on November 28, 2000 as U.S. Patent No. 6,152,835. That application, in turn, is a divisional application of U.S. Serial No. 08/975,799, which was filed on November 21, 1997 and issued on October 26, 1999 as U.S. Patent No. 5,971,870.--

**IN THE CLAIMS**

Please delete claims **38-65** in the parent application.

Please add new claims **66-85** as follows:

66. (New) A golf ball comprising:

a solid core;

a cover comprising an inner cover layer and an outer cover layer, wherein the inner cover layer comprises an ionomer resin and the outer cover layer comprises a polyurethane and wherein outer cover layer has a Shore D hardness of about 58 or more;

the ball having a PGA compression of 80 or less and a coefficient of restitution of at least 0.780;

67. (New) The ball according to claim 66, wherein the ball has a PGA compression of 70 or less.

68. (New) The ball according to claim 66, wherein the ball has a diameter of no more than 1.70 inches.

69. (New) The ball according to claim 66, wherein the ball has a coefficient of restitution of at least 0.790.

70. (New) The ball according to claim 66, wherein the ball has an outer cover hardness of 60 or more.
71. (New) The ball according to claim 66, wherein the core has a PGA compression of 55 or less.
72. (New) The ball according to claim 66, wherein the outer cover has a thickness of 0.01 to 0.20 inches.
73. (New) The ball according to claim 66, wherein the outer cover has a thickness of 0.025 to 0.15 inches.
74. (New) A golf ball according to claim 66, wherein the ball has a mechanical impedance with a primary minimum value in the frequency range of 3100 Hz or less after the ball has been maintained at 21.1°C, 1 atm. and about 50% relative humidity for at least 15 hours.
75. (New) A golf ball comprising:  
a solid polybutadiene core;  
an outer polyurethane cover layer having a Shore D hardness of about 58 or more;  
the ball having a PGA compression of 80 or less and a coefficient of restitution of at least 0.780.
76. (New) The ball according to claim 75, wherein the ball has a coefficient of restitution of at least 0.790.
77. (New) The ball according to claim 75, wherein the ball has a mechanical impedance with a primary minimum value in the frequency range of 3100 Hz or less after the ball has been maintained at 21.1°C, 1 atm and about 50% relative humidity for at least 15 hours.

78. (New) The ball according to claim 75, wherein the core has a PGA compression of 55 or less.

79. (New) The ball according to claim 75, wherein the outer cover has a thickness of 0.01 to 0.20 inches.

80. (New) The ball according to claim 75, wherein the outer cover has a thickness of 0.025 to 0.15 inches.

81. (New) A golf ball comprising:

a solid polybutadiene core;

a cover comprising an inner cover layer and an outer cover layer, wherein the inner cover layer comprises an ionomer resin and the outer cover layer comprises a polyurethane and wherein outer cover layer has a Shore D hardness of about 58 or more;

the ball having a PGA compression of 80 or less and a coefficient of restitution of at least 0.780;

82. (New) The ball according to claim 81, wherein the ball has a PGA compression of 70 or less.

83. (New) The ball according to claim 81, wherein the ball has a diameter of no more than 1.70 inches.

84. (New) The ball according to claim 81, wherein the ball has a coefficient of restitution of at least 0.790.

85. (New) A golf ball according to claim 81, wherein the ball has a mechanical impedance with a primary minimum value in the frequency range of 3100 Hz or less after the ball has been maintained at 21.1°C, 1 atm. and about 50% relative humidity for at least 15 hours.

**REMARKS**

Claims **38 to 65** of the parent application have been canceled, and new claims **66 to 85** are presented herewith. Prompt and favorable action on the merits is respectfully requested.

Respectfully submitted,

MICHAEL J. SULLIVAN ET AL.

Date: February 15, 2002

By: Michelle Bugbee

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Attachment: Version With Markings to Show Changes Made

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

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